



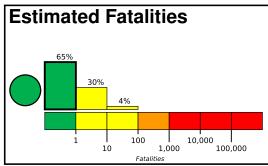


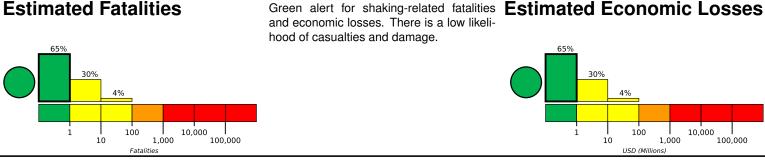
## **PAGER** Version 5

Created: 1 week, 1 day after earthquake

# M 4.1, 4 km E of Petrolia, CA

Origin Time: 2023-08-17 21:07:58 UTC (Thu 14:07:58 local) Location: 40.2913° N 124.3092° W Depth: 38.9 km





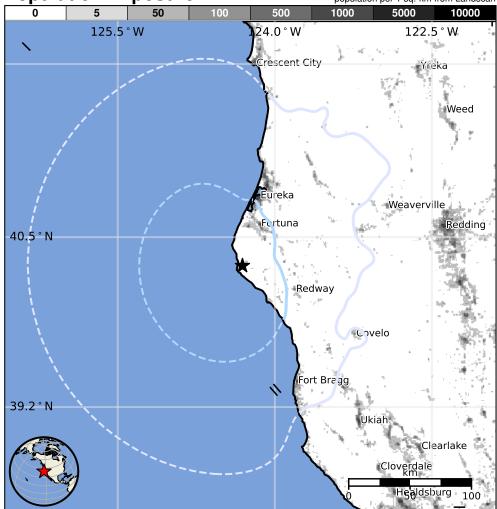
**Estimated Population Exposed to Earthquake Shaking** 

ESTIMATED POPULATION EXPOSURE (k=x1000)		647k*	198k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

## Population Exposure

population per 1 sq. km from Landscan



### PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

#### **Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

#### **Historical Earthquakes**

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1993-09-21	295	6.0	VI(47k)	1
1980-11-08	91	7.3	IX(16k)	0
1980-01-24	363	5.8	VII(35k)	1

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

### Selected City Exposure

from GeoNames.org MMI City Population Rio Dell Ш Ш Ferndale 1k Ш Hydesville 1k Ш Humboldt Hill 3k Ш **Fortuna** 12k Bayview 3k Ш Ш Eureka 27k Ш Arcata 17k Ш Bayside 17k Redding 90k

Windsor bold cities appear on map.

(k = x1000)

27k

Event ID: nc73925281